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Form PTO-1449 US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. D/99503	APPLICATION NO. 2100 09/737,942		
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT Lauri Karttunen et al.			
		FILING DATE 12/18/2000	GROUP ART UNIT 2122		
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE	CLASS	SUB CLASS
MS	5,594,641	1/14/97	Kaplan et al.	395	601
	5,625,554	4/29/97	Cutting et al.	364	611
	5,642,522	6/24/97	Zaenen	395	794

## FOREIGN PATENT DOCUMENTS

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	COUNTRY	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	TRANSLATION Y/N

## OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.)

MS	EVAN L. ANTWORTH. "PC-KIMMO: a two-level processor for morphological analysis". Section 6.4 "Nonconcatenative processes" to section 6.4.7 "Reduplication with coalescence", in Number 16 of Occasional publications in academic computing. Summer Institute of Linguistics, Dallas. Pages 151-161. 1990.
	KENNETH R. BEESLEY, TIM BUCKWALTER, AND STUART N. NEWTON. "Two-level finite-state analysis of Arabic morphology". In Proceedings of the Seminar on Bilingual Computing in Arabic and English, Cambridge, England, September 6-7. No pagination. 1989.
	KENNETH R. BEESLEY. "Finite-state description of Arabic morphology". In Proceedings of the Second Cambridge Conference on Bilingual Computing in Arabic and English, September 5-7. No pagination. 1990.
	KENNETH R. BEESLEY. "Computer analysis of Arabic morphology: A two-level approach with detours". In Bernard Comrie and Mushira Eid, editors, Perspectives on Arabic Linguistics III: Papers from the Third Annual Symposium on Arabic Linguistics, pages 155-172. John Benjamins, Amsterdam. 1991.
	KENNETH R. BEESLEY. "Arabic finite-state morphological analysis and generation". In COLING'96, volume 1, pages 89-94, Copenhagen, August 5-9. Center for Sprogeteknologi. The 16th International Conference on Computational Linguistics. 1996.
	KENNETH R. BEESLEY. "Arabic morphological analysis on the Internet". In ICEMCO-98, Cambridge, April 17-18. Centre for Middle Eastern Studies. Proceedings of the 6th International Conference and Exhibition on Multi-lingual Computing. Paper number 3.1.1; no pagination. 1998.
	KENNETH R. BEESLEY. "Arabic morphology using only finite-state operations". In Michael Rosner, editor, Computational Approaches to Semitic Languages: Proceedings of the Work-shop, pages 50-57, Montréal, Québec, August 16. Université de Montréal. 1998.
	KENNETH R. BEESLEY. "Arabic stem morphotactics via finite-state intersection". Paper presented at the 12th Symposium on Arabic Linguistics, Arabic Linguistic Society, 6-7 March, 1998, Champaign, IL.
	KENNETH R. BEESLEY. "Consonant Spreading in Arabic Stems". In COLING-ACL'98, Volume 1, pages 117-123. August 1998.
	KENNETH R. BEESLEY AND LAURI KARTTUNEN. "Finite-State Non-Concatenative Morphotactics". SIGPHON-2000, Proceedings of the Fifth Workshop of the ACL Special Interest Group in Computational Phonology, pp. 1-12, August 6, 2000, Luxembourg.
EXAMINER	DATE CONSIDERED 6/6/05

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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<p><i>MS</i></p> <p>LAURI KARTTUNEN, RONALD M. KAPLAN, AND ANNIE ZAENEN. "Two-level morphology with composition". In COLING'92, pages 141-148, Nantes, France, August 23-28. 1992.</p> <p>LAURI KARTTUNEN. "Finite-state lexicon compiler". Technical Report ISTL-NLTT-1993-04-02, Xerox Palo Alto Research Center, Palo Alto, CA, April, 1993.</p> <p>LAURI KARTTUNEN. "Constructing lexical transducers". In COLING'94, Kyoto, Japan. 1994.</p> <p>LAURI KARTTUNEN, JEAN PIERRE CHANOD, GREG GREFENSTETTE, AND ANNE SCHILLER. "Regular expressions for language engineering". Natural Language Engineering 2 (4), 305-328. 1996.</p> <p>LAURI KARTTUNEN, TAMÁS GAÁL, AND ANDRÉ KEMPE 1997. "Xerox Finite-State Tool". Technical Report, Xerox Research Centre Europe, Grenoble, Meylan, France. June 1997.</p> <p>LAURA KATAJA AND KIMMO KOSKENNIEMI. "Finite-state description of Semitic morphology: A case study of Ancient Akkadian". In COLING'88, pages 313-315. 1988.</p> <p>MARTIN KAY. "Nonconcatenative finite-state morphology". In Proceedings of the Third Conference of the European Chapter of the Association for Computational Linguistics, pages 2-10. 1987.</p> <p>GEORGE ANTON KIRAZ AND EDMUND GRIMLEY-EVANS. "Multi-tape automata for speech and language systems: A Prolog implementation". In Jean-Marc Champarnaud, Denis Maurel, and Djelloul Ziadi, editors, Automata Implementation; volume 1660 of Lecture Notes in Computer Science. Springer Verlag, Berlin, Germany. 1999.</p> <p>GEORGE ANTON KIRAZ. "Multi-tape two-level morphology: a case study in Semitic non-linear morphology". In COLING'94, volume 1, pages 180-186. 1994.</p> <p>GEORGE ANTON KIRAZ. "Semhe: A generalised two-level system". In Proceedings of the 34th Annual Meeting of the Association of Computational Linguistics, Santa Cruz, CA. 1996.</p> <p>GEORGE ANTON KIRAZ. "Multi-tiered non-linear morphology: A case study on Syriac and Arabic". Computational Linguistics, Volume 26, Number 1. 2000.</p> <p>KIMMO KOSKENNIEMI. "Two-level morphology: A general computational model for word-form recognition and production". Publication 11, University of Helsinki, Department of General Linguistics, Helsinki. 1983. (See in particular pages 27-28.)</p> <p>ALON LAVIE, ALON ITAI, UZI ORNAN, AND MORI RIMON. "On the applicability of two level morphology to the inflection of Hebrew verbs". In Proceedings of ALLC III, pages 246-260. 1988. (See in particular bottom of page 248.)</p> <p>JOHN J. MCCARTHY AND ALAN PRINCE. "Faithfulness and reduplicative identity". Occasional papers in Linguistics 18, University of Massachusetts, Amherst, MA. ROA-60. 1995.</p> <p>JOHN J. MCCARTHY. "A prosodic theory of nonconcatenative morphology". Linguistic Inquiry, 12(3):373-418. 1981.</p> <p>RICHARD SPROAT. "Morphology and Computation". Section 2.4.4 "Nonconcatenative morphology, MIT Press, Cambridge, MA. Pages 159-170. 1992.</p>			
EXAMINER <i>Mattie J. H.</i>	DATE CONSIDERED 6/6/05		
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